

# AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION

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TV, FM-DX

King Schafer  
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AIPA BULLETIN. Published monthly.

April 6, 1962

## BOARD MEMBERS-

B.J. BINGHAM  
BEDFORD BROWN  
FERDINAND DOMBROWSKI  
BILLY DRAEB  
TOM HIDLEY  
DORIS JOHNSON  
RICHARD NIEMAN  
DENNIS SMITH  
WALTER SPAULDING

It's AIPA election time again!

Once a year all AIPA members are asked to cast their ballots, and select their leadership team for the coming season of club operation. A handy prepared card, ready for mailing, is provided for this purpose. So all one have to do is fill his selections in the blanks, and drop the ballot in the nearest letter box. Simple eh?, but something must be quite wrong here!...

Wrong because, for some unknown reason only half or less AIPAers ever bother to employ their balloting privilege! And this has been the case ever since our organization was founded in 1953. However, were not going to make a big patriotic appeal to "get out the vote". If you don't desire to vote, then don't. Just try and see how easy it is to re-make the ballot card for selfish purposer Hi!

It's spring again, birds on the wing again, and all that sort of rot. Get up on the roof, and take a critical look at that ole antenna. Ugh, look at that rust, and oh those flapping lead-ins. And those sagging guy-wires, those broken insulators, that broken rotor, and the bent mast twisted elements, gad what a mess! Well?, don't stand their gawking, either get a brand new rig, or fix the old wreck up. The same goes for your receiver. As somebody once said: "Ti's a fair ship mine, free of wol, ti's a fair ship mine, free of holes." Do you have holes friend?

So much for the election, and sage of the roof-top. Now what? I can't reason a damn thing else to go on with. Spring sort of gets ya that way. Something nasty is probably in order, I have that feeling. Could be a kick or two at the "New Frontier", or the Genena conference would suffice. Nah, too dry, too pseudo-political. I remember when Nixon was running for President, and they said he lost a lot of votes because his checks were puffy, and he needed a shave. Isn't that silly? If elected he probably would have been one of the worse Presidents we ever had, checks-shave or not. Next election they should run Arthur Goldberg and Jimmy Hoffa. Neither one would get any votes, but think of all the fun Khrushchev would have.- Say, this front page is a grand platform to alleviate ones tensions and frustrations! Perhaps we could sell this space to out of sorts AIPAers monthly, and turn bit of profit Hmmm?

And as the sun sets over the happy AIPA for another month, we bid found farewell to sweet memories of elections, antennas, and anti-Nixon remarks. Our stout craft wings it way towards the horizon, and disappears into the gold and crimson night. So brace up old man don't cry me bucko, we shall, we shall return! Amen.

Best DX 73's  
King

6

# REVISED CH. 3 TELEVISION RECORDS

CALL	LOCATION	DIST.
KTVK	Phoenix, Ariz.	1920 RN
KCRA	Sacramento, Cal.	1455 ER
*KEYT	Santa Barbara, Cal.	1750 DJo
*WTIC	Hartford, Conn.	1385 BH
WEAR	Pensacola, Fla.	2050 RC
WEDU	Tampa, Fla.	1400 JPi
*WRBL	Columbus, Ga.	2025 DS
*WSAV	Savannah, Ga. (Tie) EH	1300 DJo
KID	Idaho Falls, Id.	1378 LV
*KLEW	Lesiston, Idaho	1420 DJo
WCIA	Champaign, Ill.	1500 JG
KGLO	Mason City, Ia.	1650 RC
KARD	Wichita, Kansas	1500 GG
WAVE	Louisville, Ky.	2100 RC
KTBS	Shreveport, La.	1800 DJo
WKZO	Kalamazoo, Mich.	2050 RC
KDAL	Duluth, Minn.	2000 RC
*WLBT	Jackson, Miss.	1950 DJo
KTVO	Kirksville, Mo.	1500 DJo
KYTV	Springfield, Mo.	1600 DJo
KMTV	Omaha, Neb. (Tie) DJO	1400 ND
*WSYR	Syracuse, N. Y.	1235 BH
WBTW	Charolette, N. C.	1100 GG
*KYW	Cleveland, Ohio (Tie) RC	2150 DJo
*WRCV	Philadelphia, Pa.	2400 RC
*KDLO	Florence, S.D.	1410 DR
KOTA	Rapid City, S. D.	1370 JA
WRGP	Chatanooga, Tenn.	1260 GG
WREC	Memphis, Tenn.	1850 DJo
KBTX	Bryan, Texas	1580 JD
KFDX	Wichita Falls, Tex.	1500 DJo
*WCAX	Burlington, Vt.	2500 RC
WSVA	Harrisonburg, Va.	1010 ES
WTAR	Norfolk, Va.	2400 RC
*WSAZ	Huntington, W. Va. (Tie) RC	2200 DJo
WSIZ	Madison, Wisc.	1550 DJo
KMAU	Wailuku, Hawaii	2700 DJo
*CFRN	Edmonton, Alta.	1800 BJB
*CBWT	Winnepeg, Man.	1000 RN
CBHT	Halifax, N. S.	3100 RC
CKVR	Barrie, Ont.	1425 JD
CJBR	Rimouski, Queb.	1600 JPi
CKOS	Yorkton, Sask.	1397 RC
PRF3	Sao Paulo	6500 PC
CMQ	Holguin, Cuba	2700 DJo
CMH	Santa Clara, Cuba	1800 DJo
CMBF	Havana, Cuba	1225 JFa
TGBOL	Guatemala City, Guat.	2500 RC
*XEFB	Monterray, Mex.	1100 JPi
XEM	Mexicali, B. C.	1400 JPi
XEZ	Queretaro, Gro.	1970 RC
*CMKJ	Holguin, Cuba	1550 DR
*KRTV	Great Falls, Mont.	1350 BJB
*WSIL	Harrisburg, Ill.	1850 DJo
CKSO	Elliot Lake, Ont.	1175 DR

# NEW VHF TV RECORDS

CALL	LOCATION	DIST.	DXER
	CHANNEL 4		
WGAL	Lancaster, Pa.	995	BB
	CHANNEL 6		
WNHC	New Haven, Conn.	1090	BB

Bedford Brown received these prior to 1953, when they were on these Channels.

D. Janowiak still has his record of WGAL on Ch. 8 (680) and C. Howington his record of WNHC on Ch. 8 (650)

Sorry I missed these in the Revised Ch. 2 list:

KENI Anchorage, Alaska 2600 FD

WTHS Miami, Fla. 1300 JF

F. Dombrowski and John Pirch

Corrections:

D. Smith's KICU is on Ch. 43 instead of Ch. 21 and 80 Mls. instead of 43 Miles.

A. Preston's KBEO Ch. 53 should be KBID Ch. 53 100 Mls. Preston's KMJ Ch. 24 should be 100 Miles instead of 80 Mls

REVISED CH. 3 RECORD HOLDERS:

D. Johnson-17

R. Cooper-14

J. Pirch-4

D. Ruland, G. Girard-3

B.J. Bingham, J. Dillon, B. Hauser, R. Nieman-2

P. Cox, J. Abercrombie, N. Doyle, J. Grover, E. Hepp, J. Parillo, E. Rugel, E. Shorey, D. Smith, L. Vehorn-1

No Records for Ch. 3:

WIPM Mayaguez, Porto Rico

CFCL Kapuskasing, Ont.

KIEM Eureka, Cal.

New Official (AIFA) Standings as soon as we get enough totals. Send me your total standings (mine is 158), and your Rank (mine-148 VHF, 10 UHF-Total 158), to Spaulding.

\*New since my first listing of Oct. 1960 Deadline for May--Arr. 25.  
Frank Wheeler, Box 176, R. D. 5, Erie, Pa.

AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION

FCC NEWS.  
NEWS BITS.

April 6, 1962

GRANTS....

Ch.10 (Ed.) Pullman, Wash. 3.41Kw-1.70Kw. \* New Call assigned to  
Ch 36 (Ed.) Milwaukee, Wis. 17.86Kw-9.6Kw. KATC(TV) Lafayette, La.  
Ch 67 Houston, Tex. 92.3Kw-65.1Kw.

APPLICATIONS..

Ch 13 Honolulu, Hawaii 30.5Kw.  
Ch 19 Huntsville, Ala. 500Kw...  
Ch 23 Houston, Tex. 10.88Kw.-6.14Kw.  
Ch 25 Newark, Ohio(Ed.) 14.56Kw- 8.55Kw.

News...Two applications for TV stations have been dropped- WTVI(TV) ch  
19 in Fort Pierce, Fla. and KBWC-TV Ch 3 in Gallup, New M.

WBJA-TV Binghamton, N.Y. oked for shift of channels 56 to 34.

The new WJFM-FM Utica, N.Y. 107.3mc. on by April 1st.

The plan to get all VHF-UHF sets made by the manufacturer is  
lessening or dropping off somewhat.

It is expected by the end of 1962 there will be some 260 FM  
stations broadcasting by Stereo.

Live TV from Mars, Venus and the Moon is the object of the Nation-  
al Aeronautics & Space agency, they say anytime after 1965.

Welcome new members...

James L. Moyer 2913 W. North Ave. Milwaukee, Wis.  
Charles J. Milton 1106 So. 44th. Milwaukee, Wis.

Renewals in .....

John R. Winegard, Burlington, Iowa. James Habermehl, Clarington, O.  
John Opyd Chicago, Ill. Ed Prond. Dolton, Ill.  
John Black Moffot, Ont. Canada. Eric Norberg, Claremont, Calif.  
Dempsie Fuqua, Detroit, Mich. Jim Dillon, Regina, Sask, Canada.

Address Change...

Elwood Walter. 2609 West 5750 South. Roy, Utah.

Our good friend Tom Hidley has done it again-- another article is in  
the making which will appear in Popular Mechanics magazine possibly in  
the Aug and Sept issues.

The #4 issue of Vane A. Jones AM-FM-Radio and TV station listings  
will be on sale by the middle of June ( \$2.00 per copy) The new issue  
will be enlarged and with larger type. They are attempting to get in-  
formation regarding antenna height of FM stations. It will include 14  
double page maps, showing the 12 VHF channels, UHF stations and FM stations.

The issue may contain an article sent in by yours truly. Lets all  
buy a #4 issue ! (address below.)

The Vane A. Jones Co. 3749 N. Keystone Ave. Indianapolis, 18, Ind.

Use the enclosed card to vote for your choice of AIPA Pres/V.Pres/  
and nine Board members.

The TVDX season is about to start so keep your eyes set on the set.

Art Collins.

Gary Olson  
April 6, 1962

AIFA STANDARDS

313 E. Armory  
Champaign, Ill.

Sorry, there was no column last month. Unfortunately I was overloaded with exams and papers near the end of the month and couldn't get the column done.

Comments on the AIFA Counting Standards. For the most part, the new standards have been accepted by AIFA members according to the mail response. However, several DXers have been questioning certain points. The first headache is the sharetime station; some DXers still indicate disagreement on whether or not certain sharetime stations should be counted as two. The biggest complaint stems from the rules #2 and #3 which deal with stations going off the air and then returning as stations similar to the old ones but not the same as the old. Perhaps we should clarify this by your suggestions before making an official decision. Another problem is the post-freeze changes which shifted many stations to different channels. How should these be counted?

Other comments. To answer other DXers questions on the standards:

- (1). A verification is not needed to put a station in your log. Veries are to be listed in the verified column of your totals.
- (2). Translator stations, no matter how many you can receive, are of course, legal to count in your log as long as they are received by your set without the use of Cable TV.
- (3). To answer Bill Hauser, veries include all forms of verification (tape and wire recordings, photos, and letters or QSLs). When listing veries, include your total of all your verifications.

Delinquent signers. A limited response has been shown toward the delinquent signers listing which begins this month. Please send me a listing of all stations which have not answered your requests for verification. All stations which have replied send to Walt Spaulding for listing in his column.

The idea of this listing is to aid you the DXer in finding a person to channel your request to for verification. Other DXers will see your list of unanswered requests and can send you the name to send to for a particular station. (providing of course that they have gotten a verie from that station)

Bill Hauser's Unverified stations are as follows:

KLRJ ch.2 Henderson, Nev.	WRBL ch.3 Columbus, Ga.
WGR ch.2 Buffalo, N.Y.	KXLF ch.4 Butte, Mont.
KDIX ch.2 Dickinson, N.D.	WNEM ch.5 Bay City, Mich.
KTWO ch.2 Casper, Wyo.	WECT ch.6 Wilmington, N.C.
WTTG ch.5 Wash., D.C.	KOAM ch.7 Pittsburg, Kansas
XETV ch.6 B.C.N.	KVII ch.7 Amarillo, Texas
WFIL ch.6 Phila., Penn.	WFAA ch.8 Ft. Worth, Texas
WITN ch.7 Washington, N.C.	KKTU ch.13 Colo. Springs, Colo.
KOMC ch.8 McCook, Neb.	WHO ch.13 Des Moines, Iowa.
KCRA ch.3 Sacramento, Calif.	KTVE ch.10 El Dorado, Ark.
WKZO ch.3 Kalamazoo, Mich.	KODE ch.12 Joplin, Missouri

From Bill Hider:

KOTV ch.6 Tulsa, Okla.	WREC ch.3 Memphis, Tenn.
WABG ch.6 Greenwood, Miss.	

Gary Olson:

KMSF ch.9 Minneapolis, Minn.	WTCN ch.11 Minneapolis, Minn.
WLBT ch.3 Jackson, Miss.	KALB ch.5 Alexandria, Louis.
KROD ch.4 El Paso, Texas	WSAZ ch.3 Charleston, W.Va.
KEDY ch.4 Big Spring, Tex.	KCSJ ch.5 Pueblo, Colo.
WJIM ch.6 Lansing, Mich.	WIBW ch.13 Topeka, Kansas
WFBN ch.7 Traverse City, Mich.	

Next month we will have more delinquents--please send in yours. Two or three times a year we will check to see which stations are the most troublesome for getting replies. Also please write to me and comment on the aforementioned troublespots in the official AIFA counting standards.

Best DX---73's, Gary

April, 1962

FM REPORTS

Dennis Smith of Wasco, Calif. had his Hallicrafters radio home between semesters and he heard the two new Fresno stations, KCIB 94.5 and KXQR 102.7. His total is now 95.

Al Germund of Englewood, NJ heard a few new ones. Feb 8-WHFS 102.3 1.0kw Bethesda Md; Feb 19-WXUR-FM 100.3 4.5kw Media, Pa; Feb 23 -WGTS 91.9 1.0kw Takoma Park, Md. WHFS is a new stereo station, about 6 months old. With the reception of WHFS & WGTS, Al has 100% reception of all Washington/Baltimore FM stations. On March 10th, local WNCN 104.3 was off for 3 hrs., enabling reception of the new WRUN-FM 104.3 100kw Utica, NY. Originally logged at 105.7, WRUN-FM moved last autumn to 104.3. WITH-FM previously logged, was received again. March 11- WMVB-FM 97.3 5.17kw Millville, NJ (new)

FCC NEWSNew stations (construction permits granted)

WMEB	91.9	.375kw	Orono, Maine(U of Maine) Educ.
WCBC	105.7	2.82	Baltimore, Md
WUFM	107.3	3.6	Utica, NY (expected <u>on</u> by APRIL 1!!!)
WYDD	100.7	20.0	New Kensington, Pa
WPBI	102.1	3.5	Danville, Illinois
WHTC-FM	96.1	2.91	Holland, Mich
KTXR	101.5	6.2	Springfield, Mo.
WISZ-FM	95.9	1.0	Glen Burnie, Md
WXRI	104.5	11.0	Norfolk, Va.
WKTM	102.5	3.3	N. Charleston, SC
WMSP	94.9	1.65	Harrisburg, Pa.
K---*	94.3	.360	Colorado Springs, Colo.
W---*	107.9	19.0	Flint, Mich
K---*	102.1	3.8	Minneapolis
WTCN-FM	93.7	20.0	Minneapolis
WCCO-FM	102.9	2.7	Minneapolis
KPAC-FM	98.5	.960	Port Arthur, Texas
WKNE-FM	103.7	1.0	Keen, NH
KWHP	97.7	.410	Edmond, Okla
KAEI-FM	95.5	15.36	Dallas, Texas
W---*	92.1	1.0	Racine, Wisc.
WFLG FM	96.9	6.7	Atlantic City, NJ
K---*	100.1	.880	Plentywood, Mont
W---*	101.1	9.4	Philadelphia, Pa.
W---*	107.7	3.6	Warrenton, Va
WTUF-FM	97.5	14.7	Mobile, Ala
K---*	94.7	17.0	Honolulu, Hawaii
WBT-FM	107.9	4.3	Charlotte, NC
WCLW-FM	105.3	1.0	Mansfield, O
K---*	104.9	2.5	College, Alaska (U of Alaska)
K---*	106.3	1.0	Sun City, Ariz
WPLB-FM	107.3	5.3	Greenville, Mich.
W---*	97.1	20.0	Greensboro, N.C.
WILQ-FM	99.7	5.9	Frankfort, Ind.
W---*	97.9	20.0	Grand Rapids, Mich
W---*	94.7	18.5	Bayamon, P.R.
WBEU-FM	98.7	7.55	Beaufort, SC
CALL LETTERS ASSIGNED:			Greenfield, Ind.
WSMJ	99.5		Eugene, Oreg
KBMC	94.5		Riverhead, NY (June 15 is TARGET date)
WAPC-FM	103.9		

## SILENT

WAJR	Morgantown, W.Va.	to April 28
KWIX	St. Louis	to May 25
KLOV		
KCPA		

## MAJOR CHANGES

WIPR-FM	San Juan, PR to 91.5mc -- up to 380kw
WGAU-FM	Athens, GA from 102.5 to 95.5mc/s
WIAN	Indianapolis, Ind. to 10.0kw @ 90.1mc/s
WKJF	Pittsburgh, Pa down to 32kw @ 93.7
KFMQ	Lincoln, Neb. to 1.0kw @ 95.3 mc
WUOT	Knoxville, Tenn. down to 67kw @ 91.9 mc/s
KRBE	Houston, Tex to 38.0 kw
WKNT	Kent, Ohio to 800w @ 97.7mc/s
WRVM-FM	Rochester, NY to 5.6kw @ 100.5 mc
WAVQ	Atlanta, Ga. to 8.1kw @ 94.9
MARK-FM	Hagerstown, Md. to 2.3kw @ 106.9
WTBO-FM	Cumberland, Md. down to 6.3 kw @ 106.1

DELETE: KBEC-FM 93.5 Waxachachie, Texas

REVOCATION Proceedings: WLOV-FM 99.9 Cranston, RI, &amp; KCPA 94.1 Dallas

Expected on before July 1, 1962 are:

WINF	107.9	Manchester, Ct.	KQV	102.5	Pittsburgh, Pa
WWCO	104.1	Waterbury, Ct.	WINE	107.9	Pittsburgh, Pa
WDRN	95.9	Darien, Ct.	WBGM	98.9	Tallahassee, Fla
WDEE	101.3	Hamden, Ct.	WVEC	101.3	Hampton, Va.
WYCE	107.7	Providence, RI	WIL	92.3	St. Louis
WHIM	94.1	Providence, RI	WNOR	98.7	Norfolk, Va.
WROW	95.5	Albany, NY	WKNT	97.7	Kent, O.
WNSH	103.1	Highland, Park, Ill	KLVL	92.5	Pasadena, Tex
WTBO	106.1	Cumberland, Md	WMLW	98.1	Milwaukee, Wisc.
WEZN	106.7	Elizabethtown, Pa.	WAVI	107.7	Dayton, O

## ON AIR:

WRNR	94.5	Port Clinton, Ohio
WMVB	97.3	Millville, NJ
WOKZ	100.3	Alton, Ill
WXUR	100.3	Medina, Pa.
KOFO	95.7	Ottawa, Kan.

Approved by FCC March 12, 1962 (granted construction permits)

WGPC	104.5	19.8kw	Albany, Ga.
W---	92.5	20.0	Rochester, NY
K---	88.3	.0285	Lafayette, La (28.5w)
W---	106.1	20.0	Mansfield, Ohio.

\*Call letters not yet assigned.

WBPM	101.9	New York, NY--add to list of All-nighters
WBA		New sked (Mon-Fri) 7am-2:30am (Sat) 7am-12am
		(Sun) 8 am-12 am

KCKN 94.1 has application--NOT cp or licence @20.0kw

KCIB 94.5 60kw started Jan 28 with Multiplex stereo & som religious programs. KXQR 102.7 37kw started March 1 and is all Multiplex stereo. They are both on the KAIL(TV-53) tower in Fresno. KVEN 100.7 Ventura, Calif now on the air.

Thanks to Al Germund and Dennis Smith for the above information.

ATTENTION FM DXer's

Send in your FM totals by April 22nd. Include number logged, farthest tropo and farthest E's

73's DAVE



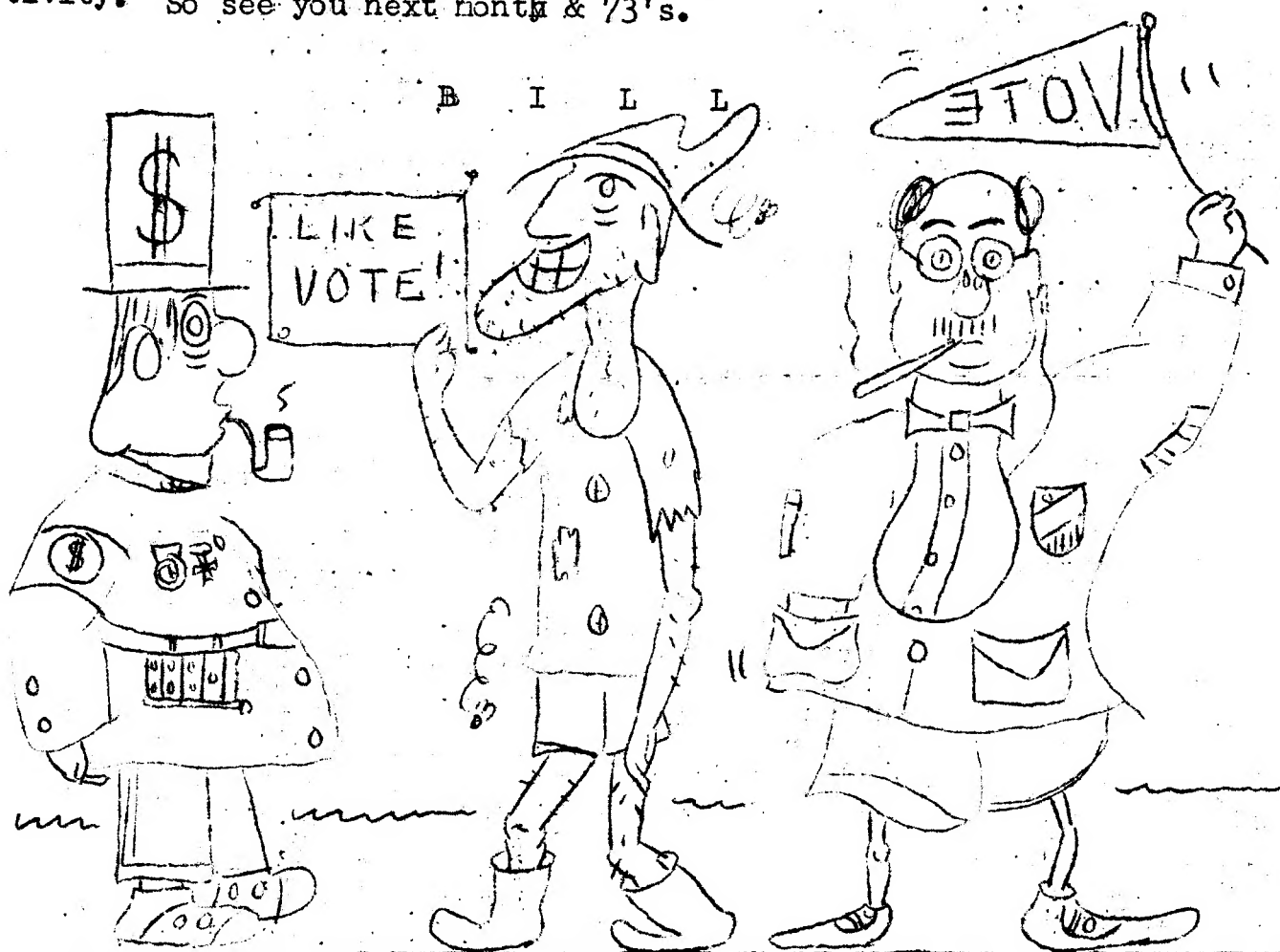
Conducted by: "Bill Draeb" Ellis Street  
"Meteor Scatter Column" Kewaunee, Wisc.

Well, no reports again this month. Next month I should have a report for this column as I now have my antennas up and everything is working fine. Saturday morning (24th) there was a pretty good ground wave opening (Trops) to the SE. I saw WLSL-10 which I positively identified and a station on ch. 7 which was probably WDBJ-7 but did not find out for sure. The last time I saw those two was about 6½ years ago when my ant- was more than a hundred feet lower than it is now. I was also using a ch. 2-6 ant. at the time and the place where we lived then was surrounded by woods, hills, etc. and I got about the same quality picture. Must have been a better opening I guess.

Here are a few meteor showers to look for which will help in bringing in meteor scatter skip: April 19 Lyrids shower; May 1-8 May Aquarid shower and May 11-14 Zeta Herculid shower. The Lyrids shower is the best of these so watch for increased meteoric activity during this one especially.

As u probably noticed in Frank Wheelers column that my total number of stations now logged according to the new rules set down by the AIPA is 272. I went over my whole log# and ammended it. My previous total was 299.

Well I guess that does it for this month then since there are no reports. I could add that the E-Skip season is drawing near and now wud be a darn good time to think about getting your set, antennas, ect, in shape and good operating condition so you won't miss out on any DX activity. So see you next month & 73's.



First off, I'll finish Bedford Brown's list of Latin American stations as listed in the 1962 issue of "World Radio-TV Handbook," and others:

BRAZIL: Rio de Janeiro:

2 T.V. Mayrink Veiga, FRA9-TV, Brasilia, D.F. 2-3 T.V. Nacional  
4 T.V. Globo ----- (ch.7?) 6-3 T.V. Brasilia  
6 T.V. Tupi PRG3-TV Aracatuba, S.P. ch.9  
7 T.V. Nacional PRE8-TV ch.2? Araraquara, S.P. ch.9  
9 T.V. Continental PRD8-TV Avare, S.P. ch.13  
11 T.V. Diario Carioca, PRD5 ? Barretos, S.P. ch.10  
13 T.V. Rio, or T.V. Record ? Belem, P.A. ch.2, T.V. Marajoara.

Sao Paulo:

2 T.V. Cultura, PRE4-TV. Bauru, S.P. T.V. Bauru on ch. 2;  
4 T.V. Tupi PRF3-TV ? ch.5 network Rede Unidas de TV  
5 T.V. Paulista, ----- Belo Horizonte, MG 4 TV Itacolomoi  
7 T.V. Record PRB9-TV. ch.2 T.V. Inconfidencia. (PRH6.  
9 T.V. Excelsior, PRG9-TV. ch.12 T.V. Belo Horizonte.  
11 T.V. Gazeta, FRA6-tv. Campinas, S.P. ch.6, network R.U.T.  
13 T.V. Bandeirantes/ Bandeirantes, Curitiba, P.A. ch.6, 5, T.V.  
PRH9-TV. Parana; ch.12, T.V. Paranaense.

Marilia, S.P. ch.6.  
Nova Friburgo, ER ch.3.  
Ourinos, S.P. ch.4.  
Porto Alegre, RGS; ch.5, TV Piratini. Guaratingueta, S.P. ch.12 TV Rio rel,  
Piracicaba, S.P. ch.12. Itapetininga, S.P. ch.3.  
Prudente, S.P. ch.2. Jose Rio Preto, S.P. ch.8.  
Ribeirao Preto, S.P. ch.3, TV Tupi. Juiz de Fora, MG ch.5 T.V. Rio relay  
ch.7, R.U.T. network. ch.10 T.V. tupi relay.  
Recife, Pern. TV Jornal do Comer- Lafaiete, MG ch.6 T.V. rio relaya  
cio on ch.2; TV Clube de Per- Lins, S.P. ch.11.  
nambuco on ch. 6-5. Londrina, PA. ch.5 T.V. Londrina.  
Santos, -Salv., -TV-Itpean, -ch.5, TV ch.3 T.V. Coroados.  
Difusora de Santos, ch.8, R.U.T. Goiania, Go. ch.2, Radiodif. e TV  
Tupa, S.P. ch. 13. Anhanguera SA.  
Volta Redonda, ER ch.8. Porto Alegre, R.S. ch.4, TV Tupi re.  
Also 9 UHF in Sao Paulo, 1 in Rio de Janeiro, D.F. ch.8, T.V. Rio.  
Salvador, B.A. T.V. Itapoan, ch.5. Barbacena, M.G. ch.6.

Vitoria, E.S. unidentified channel.  
Goiaz, Go. ch.6, TV Goiania.

That's all for Brazil. I  
made a mess of it but its done.

COLOMBIA:

Pasto 2  
Medellin 3 or 6  
Cabo Quemado 4, ( 990 kw )  
Las Jurisdicciones 5  
Santa Maria 7  
Monteria 7 Bucaramanga 10  
Boyaca 7 Madrono 11  
Paz del Rio 7 Tynja 10  
Valle del cauca 7a Purace 11  
Manjuni 7 Popayan 11  
Alto Magdalena 7 El Carmen de  
Cali 7 and 10 Bolivar 10  
Neiva 9  
Bogota 9 or 8  
Manizales 9  
El Quindio 9

URUGUAY: Montevideo:

4 CXA-TV Radio Monte Carlo TV  
6 S.O.D.R.E. government.  
8 Radio Carve.  
10 CXA-TV S.A.E.T.A.  
12 CXA12-TV T.V. Larranaga.

VENEZUELA:

Caracas; 2; YVKS-6 TV, Radio Caracas  
Caracas; 4; YVLV, TV Venezolano.  
Caracas 5 YVKA-TV, TV Nacional.  
Barquismeto; YVKS-3; satellite.  
Barquismeto; YVLV-6; satellite.  
Carabobo; YVKS-7; satellite.  
Carabobo; YVLV-9; satellite.  
Curimagua; YVKS-10; satellite.  
Curimagua; YVLV-12; satellite.  
Vargas, YVLV-9, satellite.



## Venezuela: continued:

Coro 8 YVLV-TV satellite  
 Coro-10 YVKS-TV satellite  
 La Guaira YVKS-7 satellite  
 La Guaira YVLV-9 satellite  
 Maracaibo YVKS-2 (500kw) sat.  
 Maracaibo YVLV-4 satellite  
 Maracaibo YVMP-13 Ondas del Lago.  
 Puerto La Cruz YVLV-6 (250kw) sat.  
 Puerto La Cruz YVKS-7 satellite  
 Valencia YVLD-3 Radio Valencia.  
 Valencia YVKS-7 off the air.  
 Valencia YVLV-11 or 9, satellite.

A letter arrived a few days ago from Dennis Smith with news from the March 12th issue of "Broadcasting".

Four Japanese companies will each own 10% of Formosa's first TV station. One of the four companies will also represent the station in Japan, assist with sales, engineering and programming. The station will operate on channel J1, (90-6mc), in Taipei, and will also manufacture and sell TV sets in Formosa. I recall several months ago that television experiments were conducted by the Japs in Taipei and they were highly successful and well received.

Dennis' second item concerns Telefe in Eireann in the Republic of Eire. Programming began on December 31st.

National coverage is expected by October, 1962 with a network of 7 stations. Two of these are to use 405 line standards for those who already have British TV sets, and eventually these 2 will use 625 lines like the other 5 new Irish stations. The interesting thing about these 625 line stations is that they will use a new 6mc audio-video separation in a 7 1/2 mc channel. All channels will be spaced 8mc apart as the CCIR has done on UHF, also. So here is a list of all the Irish TV stations:

Mt. Kippure (Dublin) B7 (181-6mc)  
 Mt. Kippure (Dublin) \*4 (206-13 1/2 mc)  
 Tauskmore B11 (201-6mc)  
 Tauskmore \*5 (214-21 1/2 mc)  
 Mt. Leinster \*3 (190-7 1/2 mc)  
 Mullaghanish \*2 (174-83 1/2 mc)  
 Machera \*1 (41.25-48.75mc),  
 video at 42.5mc!!!

Dennis says the Dublin 405 station will go dual standard in July, and probably Tauskmore will, too.

ERP's of both Tauskmore & the Dublin 405 stations are 100kw. All others are 50kw.

Dennis also says that to the best of his knowledge, XEM is still on channel 3, and has predominantly English programming since it serves Yuma, Arizona area. He says Yuma's KIMA-11 has studios in Yuma and Cal-exico. He says ch.12 in Tijuana was all-Spanish XEWT last Summer, but he doesn't know if they've changed the call since then or not. XETV-6 is the ABC affiliate for the San Diego area so their programming is all or predominantly in English.

A letter has also arrived with a lot of information on British television sets and antennas, tubes, etc. from AIPAer Roger Bunney in England. His station news for this column is as follows:

MOROCCO: the new TV service in the kingdom began March 3rd on 625 lines. No other information available at this time. Some of you may recall that Morocco had 819 line TV from 1954-6, chan. 8A in Rabat and 12 in Casablanca. The owners went bankrupt and the government bought the stations a year or so ago. This is the sixth African country to begin TV, as I recall. The others are Tunisia, Algeria, Egypt, Kenya and Nigeria. Oh yes, I forgot the Federation of Rhodesia and Nyasaland, so Morocco is 7.

GREAT BRITAIN: 2 new BBC satellites have begun, and in September a new ITA station for the Channel Islands. The BBC stations are Redruth, Cornwall on channel 1, and Beckley near Sutton-Coldfield on channel 2. The ITA station is on channel 9 at Fremont on Jersey Island.

The EBU supplement 6-E arrived today, and 8 new Italian satellites have opened, plus 3 others in Band I. No room for listing on this page. 73s.

[illegible]

EEEEEE	RRRRR	NN NN
EE	RR RR	NNN NN
EEEEEE	RRRRR	NNNNNN
EE	RR RR	NN NNN
EEEEEE	RR RR	NN NN

DDDDD	XX	XX
DD DD	XX	XX
DD DD	XXX	
DD DD	XX	XX
DDDDD	XX	XX

Bill Hauser at Enid, Oklahoma has had little DX--only on Feb. 24--  
troops: KLTU-7 Tyler, Texas at 315 mi. Bill's area has been having high  
winds, and he wonders if he missed much DX as his lead-in came apart--I  
doubt it. Bill--DX has been down, but should pick up fairly soon.

No chance to DX around here--but I will note a change in your editor's log because of the standards----the present KAIL 53 Fresno has no relation to the old KBID 53 Fresno, which was on in 1954--so, in counting KAIL as new, my total adds one, to make 110.

DX should be picking up, now that Spring is under way.

Dennis

.....conducted by Bedford P. Brown, Jr., 6141 South Mayfield, Chicago 38, Illinois.

### A.I.P.A. ELECTION 1962

April each year, besides heralding the coming sporadic\*E season, also signifies the return of the A.I.P.A election of president, vice-president, and nine board members. Each year only about one-half the A.I.P.A membership has voted. However, the percentage of votes has generally increased slowly but surely each year. Now-while you're reading your bulletin, why not pick up your card and vote!!! Make it 100% this year.

### NEWS

We can certainly be proud of one of our members, namely Tom Hidley. Tom has sold a couple of inventions and accompanying articles to an international magazine and is soon to have his work printed in every language all over the world. Next month I will let you in on the magazine and the publication dates so that you can buy it.

### SPORADIC-E-E-SKIP-Es

There has been some question as to the correctness of the use of E-skip and Es when we mean sporadic\*E dx. For the record, henceforth, any of these three terms used in this column is referring to sporadic\*E dx, not ordinary E layer short wave transmission.

### SPORADIC-E DX

Let us now examine sporadic-E dx. What do we really know about it? In the first place it probably occurs when clouds of atoms or electrons are ionized by some form of solar energy. When does it occur? We know that maxima occur when the Earth's magnetic pole is making its greatest angle with the electromagnetic field from the sun, specifically around the summer and winter soltices.

"But, then, " we ask, "Why is the summer dx peak so much greater than the winter?" For a possible answer let us think first about ionization. Upon what factors other than the sun's energy does ionization depend? One most important factor is density of the air. Although sporadic\*E is certainly an abnormal, freakish happening, why should it not depend to a large extent upon varying densities in the E-layer of the ionosphere?

If we admit that this is a possibility, then let us glance at an article in the September, 1961, JOURNAL OF GEOPHYSICAL RESEARCH by Allen E. Cole, Research Director, Air Force Cambridge Research Laboratories. Mr. Cole reports that data from rocket observations at Churchill, Canada, and at missile ranges between 30° and 38° North latitude in the United States indicate that seasonal and interdiurnal variations in density are quite pronounced between 30 and 90 km. in middle and high latitudes. Densities averaged about 35% above normal during the June-July skip season, while they ranged downward in winter and way down to 57% less than normal at Churchill. However, an important factor is that because of stronger dynamics (more vigorous storm systems) in fall, winter, and spring, strong variations occurred to the extent that occasional densities as high as 78% of normal occurred in southern United States.

What does this mean? If other findings verify those in 1958-1961, we may soon feel sure that variation in density of the E-layer by one way or another is one of the factors contributing to the freakishness of sporadic-E dx. The fact that densities average much much greater during the summer than the winter soltice (in the north temperate zone explains the inferiority of the winter skip season. The fact that during the beginning and end of the summer season and during off-seasons densities are much

continuing with SPORADIC-E DX

greater at lower latitudes explains the fact that sub-tropical and southern areas are favored at those times. And most important of all-Indications are that vigorous upper air storm systems in autumn, winter, and springs will greatly magnify the possibilities of sporadic-E dx by increasing the density of the extreme upper troposphere and the ionosphere in turn. This is accomplished mainly by an onrush of tropical air at very high levels in the troposphere. This could very possibly be the reason why many have noticed tornado forecasts and outbreaks during significant sporadic-E openings.

Because of the complexity of these and other findings in geophysical research on the atmosphere and related subjects, I feel obliged to postpone indefinitely a full-scale forecast program for sporadic-E dx. Without daily access to upper air soundings it would be virtually impossible for an average dxer to take proper advantage of such forecasts. However, if dxers will continue to use the off-season skip forecast as a guide in watching for sporadic-E openings, I'm certain that especially in southern areas, they will obtain good results. Any unusually severe storm center on a weather map (other than a hurricane) or abnormal rainy conditions in the arid West is reason enough to give the dials a whirl.

All comments and contributions are very much appreciated. It is a shame that many of our rocket scientists working on the ionosphere have little more than a passing interest in our favorite subject-sporadic-E dx. Perhaps some day soon, someone will make a discovery that my astound us all. At any rate-long live sporadic-E dx!!

The period of March 26-March 27 was a strange one over most of central, southwest, and northeastern U.S. with very ill-defined pressure patterns over a large part of the nation. Winds and gradients were generally so calm and weak respectively that a lot of smoke particles from the cities and haze from subsiding air and the Great Lakes combined to extend UHF transmissions somewhat. Although this wasn't a typical type of tropospheric bending, it may be interesting to see the results from other areas..of the Midwest.

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MISCELLANEOUS

The mean upper air trough or general storm-making area is now persisting over eastern North America with another trough extending from southeastern Alaska to off the California coast. If this pattern persists for a very long period, it could mean a return of drought conditions to the southwestern plains. This pattern would also very likely produce above normal sporadic-E dx openings in the eastern half of the U.S.A. and Canada with more double-hop to the Caribbean than in recent years when the mean trough was far to the west of the current position. However, this is pure speculation on my part. I certainly don't want to panic the southwestern farmers. Hi. It is true that upper air patterns can sometime change in 24-hours. However, the fact remains that once a stable set of waves is set up over the Earth, a major change is sometimes difficult to produce.

A little off the tv subject, I noticed this evening that Vienna's North American beam has moved from about 9.14 to 9.54 megacycles, also is on 9.77. There was considerable interference from HERL Berne 9.535 after 01.28 G.M.T.

I don't know whether I've mentioned this before, but a verie from ZFY Radio Demara, Georgetown, British Guiana, arrived some 14 months after I had written to them. So, if you are still waiting for some tv veries, just have patience. Hi!

In closing I want to offer my congratulations again to Tom Hidley on his great success. If anyone has any questions, please write. Until May, best and 73's, Bedford